

CLAIMS

1. A panel structure of steel house built by
constructing multi-story structural frameworks by forming
wall panels by fastening face members to rectangular
5 frames of light-gage channels of sheet steels,
constructing walls of each story by disposing said wall
panels along the four sides of a rectangle, and
assembling said wall panels and a floor panel consisting
of a wall plate mounted on floor joists, the panel
10 structure characterized by that;

side ends of said floor panel are
connected to the inner upper end of the wall panels of
the lower story, and

15 the end edges of the wall panels of the
upper and lower stories on at least two opposite sides of
said four sides are butt-joined.

2. The panel structure of steel house according to
claim 1, in which;

20 the upper edges of the wall panels of the
lower story on two opposite sides are held lower than the
upper edges of the wall panels of the lower story on
other two opposite sides, and both edges of said floor
panel are mounted on the upper edges of the lower wall
panels of the lower story on two opposite sides,

) 25 the upper surface of said floor panel is
held by the lower edges of wall panels of the upper story
on two opposite sides, and both sides of said floor panel
are connected to the inner upper end of the higher wall
panels of the lower story on the other two opposite
sides, and

30 the end edges of the higher wall panels of
the lower story on two opposite sides and the end edges
of the wall panels of the upper story on two opposite
sides are butt-joined.

35 3. The panel structure of steel house according to
claim 1 or 2, in which;

the end edges of the wall panels of the

upper and lower stories on two opposite sides are butt-joined by using rigid hardware whose upper and lower parts are anchored by fasteners to the wall frames of the wall panels of the upper and lower stories.

5 4. The panel structure of steel house according to claim 3, in which;

 said connection hardware is made of tubular steel of a given length compressed at both ends,

10 said tubular steel being passed through an opening in the web of the upper and lower frames of light-gage channels of sheet steels, and

 the compressed parts of the upper and lower tubular steels being anchored by fasteners to the web of the wall frames.

15 5. A method for constructing a panel structure of steel house according to any of claims 1 to 4, characterized by comprising steps of;

 constructing the walls of a lower story by disposing wall panels along the four sides of a rectangle,

 connecting at least two opposite sides of the wall panel to the inner upper end of the wall panels of the lower story,

20 supporting the wall panel of an upper story by the wall panels of the lower story, and

 constructing the walls of the upper story by connecting the lower end of the wall panels of the upper story to the upper end of the wall panels of the lower story.

25 6. The method for constructing a panel structure of steel house according to claim 5, which includes steps of;

 supporting both ends of the floor panel by the upper end of the wall panels of the lower story on two opposite sides that are lower than those on the other two opposite sides,

 connecting both sides of said floor panel

to the upper inner end of the wall panels of the lower story, and

holding the upper face at both ends of the floor panel by the lower end of the wall panels of the
5 upper story on the other two opposite sides.